

# Curriculum Vitae

## GABRIELE CESCUTTI

Date of birth: 16 August 1977.

Place of birth: Udine, Italy.

Address/Home: via Latina 13/16, 33100 Udine.

Address/Office: c/o Astronomy Unit, Physics Department,  
Trieste University, via G.B. Tiepolo 11, 34100 Trieste.

Telephone: mobile +393491036277; office + 390403199132.

Email: cescutti@oats.inaf.it

Citizenship: Italian.

### RESEARCH INTERESTS:

Chemical evolution of heavy elements in the Milky Way and in dwarf spheroidal galaxies; nucleosynthesis of the r-s process elements; Chemical evolution of CNO elements in the disc and in the bulge of the Milky Way. Formation of gradients in spiral galaxies. Inhomogeneous models for chemical evolution of the halo and of the dwarf spheroidal galaxies of the Local Group.

### STUDIES:

- PhD - Physics awarded on the 2th April 2007 by the University of Trieste.  
Thesis Title: **Chemical evolution of neutron capture elements in our Galaxy and in the dwarf spheroidal galaxies of the Local Group** (astro-ph 0708.4163), under the supervision of Prof. F. Matteucci.
- Degree in Physics awarded on the 26 September 2002 by the Trieste University, with a final grade of 101/110.  
Thesis Title: **Formation of spiral galaxies with a cosmological approach**, under the supervision of Dr. P. Monaco.

### Schools attended during the PhD:

- 24th Jerusalem Winter School in Theoretical Physics on “The Lives of Low Mass Stars and their Planetary Systems”, Jerusalem (Israel), 27 December 2006 - 5 January 2007.
- Third European Experimental Nuclear Astrophysics School, Santa Tecla (Italy), 2-9 Oct. 2005.
- Scuola nazionale di Astrofisica “Cosmologia osservativa a grande campo - Scala delle Distanze”, S. Agata sui due golfi (Italy), 8-13 May 2005.

## **Academic Positions:**

Since August 2008, post-doc at the Astronomy Department of the Trieste University.

From May 2007 to July 2008, in the Department of the Trieste University, collaboration with two fixed-term contracts on “*Chemical evolution of iron-peak elements*” and “*Inhomogeneous model for the halo of the Milky Way*”.

## **Teaching Activity:**

Held lessons on the production of heavy elements in stars, part of the “Stellar Physics” course at the Trieste University. For this course I am also member of the exam comitee. Assistant supervisor for one Degree thesis.

## **Languages:**

Good knowledge of written and spoken English, knowledge of written and spoken german.

## **Informatics:**

Good knowledge of Fortran programming and Linux and Windows environment. Good knowledge of Matlab. Text editing in Latex and expert in the MS-Star-Open Office programs.

User of the Virtual Observatory software Aladin, TopCat, VOSpec, VisIVO and DaMe, improved during the VO-day, held in Trieste from the 30 November to 01 December 2009.

## **Conferences:**

- Conference “Origin of Matter and Evolution of the Galaxies (OMEG10)”, Osaka University (Japan), 8 March - 10 March, 2010. Oral contribution: “Chemical evolution of heavy elements in the Local Group”.
- Conference “The Milky Way and the Local Group - Now and in the Gaia Era”, University of Heidelberg (Germany), 31 August - 4 September, 2009. Oral contribution: “Chemical Evolution Models in the Local Group”.
- Conference “Galaxies Properties across Cosmic Ages”, Rome - Accademia dei Lincei (Italy), 28-29 April, 2009. Poster contribution: “Evolution of the Milky Way and dwarf spheroidals of the Local Group: constraints on the Galaxy formation”.
- Conference “from Stars to Galaxy”, Venice (Italy), 16-20 October 2006. Poster contributions: “Inhomogeneous Galactic halo: a possible explanation for the spread observed in the neutron capture elements”.
- Conference “The Metal-Rich Universe”, La Palma, Canary Island (Spain), 12-16 June 2006. Poster contribution: “Abundance gradients in the Milky Way for  $\alpha$ -elements, iron peak elements, Barium, Lanthanum and Europium”.
- IAU Symposium No. 228 “From Lithium to Uranium: Elemental Tracers of Early Cosmic evolution”, Paris (France), 22-27 May 2005. Oral contribution: “The chemical evolution of Barium and Europium in the Milky Way”.
- Conference “Baryons in Dark Matter Halos”, Novigrad (Croazia), 5-9 October 2004.

**Workshops:**

- IX Torino Workshop on Evolution and Nucleosynthesis in AGB Stars, Perugia (Italy), 22-26 October 2007. Oral contribution: “The Chemical Evolution in the Solar Vicinity and the Nucleosynthesis of Neutron Capture Elements.”
- Third VISTARS Workshop on Nuclear Astrophysics, Russbach (Austria), 11-18 March 2006.

**Scientific seminars:**

- Osservatorio Astronomico di Trieste, 10 March 2009, Trieste (Italy).
- Max Planck Institute for Astrophysics, 27 January 2009, Garching (Germany).
- Max Planck Institute for Extraterrestrial Physics, 18 September 2007, Garching (Germany).

**Visited Institutions:**

February 2005: guest at the Observatoire de Paris - GEPI. From 23 March to 31 March 2009: guest at the Max Planck Institute for Astrophysics.